

NOTES FROM 05.11.05 PROTON DRIVER MEETING - CIVIL

Attendees: Rich Stanek, Bob Webber, Joel Misek, Rob Reilly, Mike Petkus, Dave Augustine, Rod Walton, Kamran Vaziri, Mike Andrews, Gary VanZandbergen, Chuck Federowicz, Elaine McCluskey

ITEMS DISCUSSED:

1. L25 Center Building

- a. Hatch to be large enough for moving whatever needs to be put in the tunnel during installation and operations. Right now, this is envisioned to be magnets and cryomodules. Need to determine weights and dimensions to verify tentative hatch size of 45 ft x 10 ft and double cranes of 20T each.
- b. Crane coverage should be over all the building – i.e., all the building will be high bay and the crane will cover it all.
- c. During operations, building would need to
 - i. House some spare parts for the beamline. Conclusions were these are magnets, spare parts to repair magnets. Cryomodules would not be stored in this building, but would likely be elsewhere on site. Repair facilities would include tech space in high bay minimum 30 ft square. Will need more information about what is required here. This is similar to what is at MI60 now.
 - ii. Have space underground to equipment moving apparatus. This would be both for moving magnets and for moving cryomodules. Included would be forklift, 6 golf carts (plug into regular 120V outlets), other tuggers. Possibly extend tunnel east from under hatch to provide storage space for moving equipment.
- d. Facilities that would be desirable in the building that would enhance productivity and reduce time for people to find these facilities elsewhere include toilet rooms and kitchenette/break area.
- e. Elevator – at least size of MI60. If electric forklift would be used on it, plan for elevator to carry around 20,000#.
- f. Look at how trucks would come into building – current pull-in/out design may not be optimum. Asked to consider truck pull-through. Discussed desire to reduce berm crossings due to shielding requirements.

2. Enclosure near L25 Building

- a. Need to be able to drive cryomodules (during operations) past installed equipment in the tunnel from the access tunnel to the linac. This may mean that the tunnel should be as wide as the linac, not only as narrow as the transport tunnel.
- b. An airtight door may be required between the linac and transport line tunnels for radiation and other reasons.

ITEMS FOR NEXT MEETING:

Discussion of process water systems, including facilities to house them. Maurice Ball is special guest.

NEXT MEETING 5/18/05 AT 9:30 A.M. IN THE conFESSional WH5NE